SEQUENCE LISTING

```
<120> CREATION OF VARIABLE LENGTH AND SEQUENCE LINKER REGIONS FOR DUAL-
DOMAIN OR MULTI-DOMAIN MOLECULES
<130> LSB-006
<140> unassigned
<141> 2000-09-22
<150> US 60/155,978
<151> 1999-09-24
<160> 51
<170> PatentIn version 3.0
<210> 1
<211> 9
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker
<400> 1
Pro Gly Ile Ser Gly Gly Gly Gly
```

<110> REINL, Stephen LINDBO, John TURPEN, Thomas

<210> 2

<211> 16

<212> PRT

<213> Artificial/Unknown

```
<220>
<221> misc_feature
<222> ()..()
<223> linker
<400> 2
Asn Asn Asn Asn Asn Asn Asn Asn Asn Leu Gly Ile Glu Gly Arg
<210> 3
<211> 15
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker
<400> 3
Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
<210> 4
<211> 30
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 4
gtggcatgca ggttcaactg gtggagtctg
```

```
<210> 5
<211> 26
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> (1)..(3)
<223> "asy" can appear from 1 to 50 times before the remainder of the
       sequence
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 5
                                                                  26
asytgaggag acggtgacca gggttc
<210> 6
<211> 41
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 6
                                                               41
asyasyasya syasyasytg aggagacggt gaccagggtt c
<210> 7
<211> 50
```

DC043399 53 Dkt: LSB-006

```
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 7
asyasyasya syasyasyas yasyasytga ggagacggtg accagggttc
                                                                  50
<210> 8
<211> 29
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> (1)..(3)
<223> "rst" can appear from 1 to 50 times before the remainder of the
       sequence
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 8
                                                              29
rstgacattc agatgaccca gtctccttc
<210> 9
<211> 39
<212> DNA
<213> Artificial/Unknown
```

DC043399 54 Dkt: LSB-006

```
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 9
                                                               39
caccctaggc tatcgtttga tcagtacctt ggtcccctg
<210>
      10
<211>
      44
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 10
                                                               44
rstrstrstr strstrstga cattcagatg acccagtctc cttc
<210>
      11
<211>
      53
<212>
      DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222>
      () . . ()
<223> primer
<400> 11
rstrstrstr strstrstrs trstrstgac attcagatga cccagtctcc ttc 53
```

DC043399 55 Dkt: LSB-006

```
<210> 12
<211> 38
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 12
                                                             38
atactgctac tggtgctagt actactgctg gtgctagt
<210> 13
<211> 13
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 13
Thr Thr Ala Thr Gly Ala Ser Thr Thr Ala Gly Ala Ser
<210> 14
<211> 39
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
```

<400> 16

```
<222> ()..()
<223> linker region nucleotide sequence
<400> 14
                                                              39
gctactgctg ctagtggtgc tgctgctggt ggtggtact
<210> 15
<211> 13
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
      ()..()
<222>
<223> linker region amino acid sequence
<400> 15
Ala Thr Ala Ala Ser Gly Ala Ala Ala Gly Gly Gly Thr
<210>
       16
<211>
       39
<212>
      DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
```

DC043399 57 Dkt: LSB-006

gctactggtg ctagtactag tgctactgct ggtggtagt

<210> 17

```
<211> 13
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc feature
<222> ()..()
<223> linker region amino acid sequence
<400> 17
Ala Thr Gly Ala Ser Thr Ser Ala Thr Ala Gly Gly Ser
<210> 18
<211>
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
      ()..()
<222>
<223>
      linker region nucleotide sequence
<400> 18
                                                             39
agtactgctg ctggtactag tagtggtagt agtactggt
<210> 19
<211> 13
<212> PRT
```

```
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 19
Ser Thr Ala Ala Gly Thr Ser Ser Gly Ser Ser Thr Gly
<210> 20
<211> 51
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
      ()..()
<222>
<223> linker region nucleotide sequence
<400> 20
gctagtactg ctactagtag tggtggtggt ggtactggta gtagtgctgc t
                                                               51
<210>
      21
<211>
      17
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 21
```

```
Ala Ser Thr Ala Thr Ser Ser Gly Gly Gly Thr Gly Ser Ser Ala Ala
Ala
<210>
       22
<211>
       60
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 22
gctactagta ctgctgctgc tggtgctact agtgctactg gtggtgctag tggtactggt 600
<210> 23
<211>
       20
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc feature
<222> ()..()
<223> linker region amino acid sequence
<400> 23
Ala Thr Ser Thr Ala Ala Ala Gly Ala Thr Ser Ala Thr Gly Gly Ala
Ser Gly Thr Gly
            20
<210> 24
```

<222> ()..()

```
<211> 39
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 24
actggtgcta gtggtgctac tagtagtggt agtagtagt
<210>
     25
<211> 13
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 25
Thr Gly Ala Ser Gly Ala Thr Ser Ser Gly Ser Ser
<210> 26
<211> 31
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
```

<223> primer

```
<223> primer
<400> 26
                                                            31
cctgcatgct ggaggtgcag ttggtggaat c
<210>
      27
<211> 23
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> (1)..(3)
<223> "asy" can appear from 1 to 50 times before the remainder of the
       sequence
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 27
                                                           23
asyagaggag acggtgacca tga
<210> 28
<211>
      32
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
```

```
<400> 28
                                                         32
asyasyasya syagaggaga cggtgaccat ga
<210> 29
<211> 47
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 29
                                                            47
asyasyasya syasyasyas yasyasyaga ggagacggtg accatga
<210> 30
<211> 22
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> (1)..(3)
<223> "rst" can appear from 1 to 50 times before the remainder of the
        sequence
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 30
                                                        22
rstcagtctg ccctgactca gt
```

DC043399 63 Dkt: LSB-006

```
<210> 31
<211> 34
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 31
caccctaggt caaccaagga cggtcaggtt ggtc
                                                           34
<210> 32
<211> 37
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 32
                                                           37
rstrstrstr strstrstca gtctgccctg actcagt
<210> 33
<211> 46
<212> DNA
<213> Artificial/Unknown
<220>
```

DC043399 64 Dkt: LSB-006

```
<221> misc_feature
<222> ()..()
<223> primer
<400> 33
                                                             46
rstrstrstr strstrstrs trstrstcag tctgccctga ctcagt
<210> 34
<211> 15
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 34
                                                              15
ggtgctggtg gtggt
<210> 35
<211> 5
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 35
Gly Ala Gly Gly Gly
```

```
<210> 36
<211> 30
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 36
                                                        30
actggtggtg gtggtggtag tggtggtggt
<210> 37
<211> 10
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 37
Thr Gly Gly Gly Gly Ser Gly Gly Gly 1 5 10
<210> 38
<211> 36
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
```

```
<222> ()..()
<223> linker region nucleotide sequence
<400> 38
                                                            36
actactacta ctgctactac tgctggtagt ggtgct
<210> 39
<211> 12
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 39
Thr Thr Thr Ala Thr Thr Ala Gly Ser Gly Ala
<210> 40
<211>
     15
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 40
                                                            15
gctagtactg gtgct
<210> 41
<211> 5
```

DC043399 67 Dkt: LSB-006

```
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 41
Ala Ser Thr Gly Ala
<210> 42
<211>
      24
<212>
      DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 42
agtactggta gtagtggtgc tggt
<210>
      43
<211> 8
<212> PRT
<213> Artificial/Unknown
<220>
      misc_feature
<221>
<222> ()..()
```

<223> linker region amino acid sequence

```
<400> 43
Ser Thr Gly Ser Ser Gly Ala Gly
<210> 44
<211> 21
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 44
gctagtagtg gtgctagtgc t
<210> 45
<211> 7
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 45
Ala Ser Ser Gly Ala Ser Ala
<210> 46
<211> 39
<212> DNA
```

```
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 46
gctagtggtg gtactgctgg tactggtggt agtagtact
<210> 47
<211> 13
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 47
Ala Ser Gly Gly Thr Ala Gly Thr Gly Gly Ser Ser Thr
<210>
      48
<211>
<212>
     DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region nucleotide sequence
<400> 48
```

Dkt: LSB-006

. 39

```
51
actagtggta gtggtgctag tgctgctgct ggtggtgctg ctgctagtgc t
<210> 49
<211> 17
<212> PRT
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> linker region amino acid sequence
<400> 49
Thr Ser Gly Ser Gly Ala Ser Ala Ala Ala Gly Gly Ala Ala Ala Ser
Ala
<210> 50
<211>
      24
<212> DNA
<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 50
rstrstrstr strstrstca tgcc
                                                           24
<210> 51
<211> 24
<212> DNA
```

DC043399 71 Dkt: LSB-006

<213> Artificial/Unknown
<220>
<221> misc_feature
<222> ()..()
<223> primer
<400> 51

ggcatgasya syasyasyas yasy